STEPS TO INSTALL ULTRA CSV® CRAWL SPACE VENTS

1. **Measure width and height of opening twice to be absolutely certain the Ultra CSV® faceplate will overlap the opening by at least ¼" or more on all four sides (cover opening top to bottom and right to left).**

2. **Remove the mortar that secures the vent to the foundation using a large masonry chisel and hammer.**

3. **Make one dry run to see if the faceplate fits flush with the foundation and sill plate. If the faceplate fits flush with the foundation and sill plate then caulk the backside of the faceplate with ample *non-petroleum* based caulk to insure quality seal. Then start to install the rest of the assembly.**

4. **Put the lock nut on the threaded rod. Reach inside through the faceplate and screw the threaded rods through the insert of the faceplate and screw it forward until the rod protrudes at least 5/8". Tighten locknuts with 7/16" wrench. Do NOT over tighten. Reaching through the opening with the backer bar in your hand align the backer bar to the threaded rods and insert to allow installation of wing nuts. Once again reaching through faceplate opening install the wing nuts on both sides of the threaded rods behind the backer bar and finger tighten until bar begins to bend slightly. This will apply tension to the unit and allow for consistent sealing of the caulk that was applied to the back of the faceplate. (*Check to be sure the vent is level with a small level, if not loosen wing nuts and adjust.)***

5. **Place the screen summer door on the unit and hand tighten the knurled nuts to the faceplate. Make sure that you store the winter door in a convenient place for heating season installation.**

TROUBLESHOOTING POTENTIAL PROBLEMS

VENT FACEPLATE DOES NOT FIT UNDER SIDING

ON SOME HOMES THE SIDING/SHEATHING NEEDS TO BE PRIED AWAY FROM THE SILL PLATE AND THE FOUNDATION ABOUT AN 1/8" TO ¼" FOR THE VENT FACEPLATE TO SLIDE UNDER AND UP TO THE SILL PLATE. TO DO THIS USE A FLAT BAR/PRY BAR AND OR WEDGES/SHIMS TO PRY THE SIDING AWAY FROM FRAMING AND FOUNDATION. **BE CAREFUL WHEN PRYING**. SOME HOMES SHEATHING/SIDING ARE VERY WEAK AND BRITTLE. **ALWAYS REMEMBER TO SECURE DOWN ALL AREAS YOU MAY HAVE LOOSENED WHEN PRYING. (CAULKING, NAILS, SCREWS, AND ETC.)**

THE ULTRA CSV® CRAWL SPACE VENT MAY NEED TO BE TRIMMED DOWN TO FIT PROPERLY. THE VENT FACEPLATE CAN BE TRIMMED WHEN NEEDED

SIDING IS PRIED AWAY AND THE VENT STILL WILL NOT GO UP UNDER SIDING TO THE SILL PLATE:

CHECK FOR NAILS, SCREWS AND OTHER OBSTRUCTIONS. NAILS, SCREWS, AND OTHER FASTENERS MAY BE INLINE WITH THE VENT OPENING UNDER THE SIDING. MANY TOOLS CAN BE USED TO REMOVE THESE FASTENERS, I.E. WIRE CUTTERS, DIKES, PLIERS, HACKSAW, PRY BAR CAN BE USED TO CUT AND/OR REMOVE FASTENER OBSTRUCTION.

THE ULTRA CSV® CRAWL SPACE VENT MAY ALSO BE TRIMMED DOWN TO FIT PROPERLY.

The backside top of the vent has a faceplate that is pre-scored lines to assist in trimming. This area can be trimmed using simple tools (utility knife, pliers, hacksaw) to customize the height of the faceplate. Width trimming is usually not needed, but may be done using cutting tools made to cut ABS materials.

SILL PLATE OVERHANGS THE FOUNDATION AND THE VENT DOES NOT FIT FLUSH AGAINST FOUNDATION.

A FLUSH AND AIRTIGHT FIT IS A MUST!!! IF THE SILLPLATE OVER HANGS OR IS RECESSED FROM THE FOUNDATION/CRAWL SPACE, USE A 1X2, 2X2, OR 2X4 AND CUT IT TO THE LENGTH OF THE OPENING IN THE FOUNDATION. ATTACH THE CUT LUMBER TO THE SILL PLATE FLUSH WITH THE FOUNDATION USING ALL PURPOSE SCREWS OR NAILS TO ATTACH (YOU WILL WANT TO CAULK THE LUMBER ON THE SIDE THAT CONNECTS TO THE SILL PLATE TO ENSURE A GOOD WEATHER/AIRTIGHT SEAL.) ***THIS NOW BECOMES YOUR NEW FLUSH SILL PLATE FOR YOU TO MOUNT YOUR VENT FACEPLATE TO.***

FACEPLATE IS FLUSH, THREADED RODS ARE IN THE FACEPLATE BUT THE THREADED RODS DO NOT GO THROUGH THE PREDRILLED HOLES IN THE BACKER BAR, I CANNOT ATTACH THE WING NUTS.

THE STANDARD THREADED ROD IS 9 ½ INCHES. STANDARD THREADED ROD WILL ACCOMMODATE CRAWL SPACE WIDTHS UP TO 8 INCHES. SOME HOMES HAVE LARGER BLOCKS, THICKER FOUNDATIONS. IF THE FOUNDATIONS/CRAWL SPACE IS THICKER THAN 8 INCHES YOU NEED TO PURCHASE SOME STAINLESS STEEL, OR ZINC COATED ALUMINUM THREADED ROD FROM YOUR LOCAL HARDWARE STORE AND CUT IT TO THE LENGTH YOU NEED. REMEMBER TO ADD AT LEAST 1 INCH TO THE THICKNESS OF THE CRAWL SPACE/FOUNDATION SO THAT YOUR VENT SCREEN, WINTER DOOR, AND BACKER BAR WILL FIT PROPERLY.

VENT OPENING IS BIGGER OR SMALLER THAN THE ULTRA CVS® CRAWLSPACE VENT

THERE ARE MANY OPTIONS TO ACCOMMODATE THIS. BUILDING FRAMES FOR OPENINGS AND MOUNTING THE CSV® VENT TO THE FRAME, CUTTING THE CSV® CRAWL SPACE VENT DOWN TO SIZE MAY ALSO MAKE INSTALLATION POSSIBLE.

THERE IS A CINDERBLOCK MOUNTED SIDEWAYS IN THE VENT OPENING

CRAWL SPACES ARE DESIGNED AND DONE BY DIFFERENT CONTRACTORS. SOME BELIEVE THAT PUTTING A CINDER BLOCK SIDEWAYS IN THE VENT OPENING ACTS AS A VENT AND ADDS STRENGTH. THERE ARE MANY OPTIONS YOU CAN USE TO INSTALL THE ULTRA CSV® CRAWL SPACE VENT. WHEN SUCH OBSTRUCTIONS ARE IN THE WAY REMEMBER TO CHECK AND FOLLOW YOUR LOCAL BUILDING CODES!

REMEMBER ALWAYS MEASURE TWICE! CHECK TO MAKE SURE THE VENT OPENING WILL ACCOMMODATE THE ULTRA CSV® CRAWL SPACE VENT! REMEMBER TO NEVER OVER TIGHTEN THE LOCK NUTS OR THE WING NUTS!! DOING SO WILL BUCKLE/WARP THE VENT FACEPLATE MAKING THE VENT LESS BENEFICIAL AND MAY CAUSE VENT TO BECOME DAMAGED.